



UC

DATE 1 FEB 65
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0945	---	---	---	---	LEAVE PIER	
1035	---	---	---	---	CLEAR HARBOR	
1045	BLACK-NECKED STILT	20+			AT HARBOR ENTRANCE.	
	SANDERLING	7				
	BROWN BOOBY	2			ON BUOYS	
1105	Sooty Tern	2				
1107	Jaeger, Pomarine	1				
1116	POMERINE JAEGER	1		30'	Imm plumage	
1138	WHITE-TAILED TROPICBIRD	1				
1215	Bird sp.	3		TO 60'	- Chased by JAEGER	
1218	Porpoise	2-3			Jaegers or Sooty Terns	
1218	Pom. Jaeger	1			Crossed bow 100 yds out, to port	
1219	" "	1			Ad.	
					on water	
1222	Booby (Pn?)	1				
1222	Black-footed Albatross	1				
1245	Black-footed Albatross					
1245	PORPOISE	ca. 10				
1247	Black-footed Albatross	1				
1248	POMERINE JAEGER	1				
1250	RED-footed BOOBY	1				
1311	POMERINE JAEGER	1			strong wind coming from 45° SE. at least	
					3 Jaegers soaring off port stern above level of flying bridge, alternately flying out and back to position - using lee of ship or warm updrafts?	
1330	" "	1			2 total following	
1345	" "	5-8			12-15 total at once	
	Black-footed Alb.	1			total 4 together	} all feeding on garbage
	Laysan Alb.	1			with Jaegers & Black-foots	
F 1430	Sooty Tern	50+			} distant probably wedgetails	
	Shear-Pet	10+				
	Red-foot Booby	2				



NG

DATE 1 Feb 1965
Pg. #2

time	species	#	dir.	hgt.	remarks	loc.
1500	Black-footed Alb	2			following with 4	
1515	Sooty Tern	1				
1515	Booby(?) sp.	1			Diving repeatedly - 1 1/2 miles	
1600	Black-foot Alb.	2?			6 following, had dropped to 4 in past hour	
1645	Sooty Tern	25-5			Travelling	
	Noddy Tern	5+			8 at once	
1700	Black-foot Alb	2			5-6	
1815	" " "				Had been 2 for long time, then 7.	
1815	Pom. Jaeger	5			Sunset	
1824						

Sooty Tern 88/4
Pom Jaeger 19/9
WYT 1
Bird 3/1
B? Booby 1

BFA 10/7
RFB 3/2
LA 1
S-P 10/1
Booby 1
Noddy 5/1



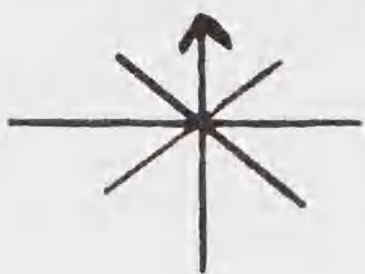
DATE 2 Feb 65
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0650	Bergin Observations				following ship	
0652	BFA	2				
0705	BFA	1			Total of 3	
0707	BFA	2			" " 5	
0710					Sunrise	
0715	Black foot Alb.	2				
0722	Jaeger Sooty Tern	2			Distant, did not come in to ship	
0804	Masked Booby WTTropic	1	↓			
0806	WTTropic	1	↓			
0814	Leach's Storm P	1				
0823	Black-f. Albatross	2			TOTAL OF 9 Following Ship	
0847	" " "	2			" following	
0855	Sooty TERN	3	↗			
0920	Sooty Tern	1				
0925	RFB	1			Booby Fishing	
	Sooty Tern	2				
1020	WTTB	1	⊙		adult	
1050	RFB	1				
F 1055	Sooty Tern	4	→		Travelling	2 BFA have bands
	Fairy Tern	1				
1109	Sooty Tern	3				BFA 23+/9
1110	BFA	1			total of 12	ST 6/10
1117	"	2			" " 14	WTT 3/3
1213	FAIRY TERN	1	↓			LSP 1/1
F 1300	SOOTY TERN	7			Travelling	RFB 5/13
1405	SOOTY TERN	1				FT 2/2
1512	SOOTY TERN	1	↙			BFB 1
1607	MASKED BOOBY	1	⊙			97/27
1620	Black-footed Albatross	9			- TOTAL 16, dropped to 6-7 from previous 14	
1636	Red-footed Booby	3	⊙		- 2 Adult, 1 imm	
F 1825	SOOTY TERN	37	⊙		Not feeding - 1 imm Booby - salt, pepper back, blue bill, wings adult	
	Red-footed Booby	1				
1837					Sunset	



DATE Feb. 3, 1965
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0715					Begin observations	
0730					Sunrise	
0730	Black-foot Alb	6				
0755	Sooty Tern	7	↔		5 BFA	
0800					" "	
0830					" "	
0915					4 "	
0925	Sooty Tern	1				
0930	SHOREBIRD	1	→	LOW	SANDERLING OR RED Phalarope	
1000					6 BFA	
1030					" "	6
1100					2 " (others possibly ON WATER ?)	
1230					3 "	+1
1300					2 "	
1330					3 "	+1
1400	masked Booby	1			4 "	+1
1430					2 "	
1500					4 "	+2
1530					5 "	+1
1535	Sooty Tern	5			Travelling	
1600					4 BFA - time ret back 1 hr. for X Ray Time	
1530					6 BFA	
1535	MASKED BOOBY	1	⊙			
1733	RED-foot. Booby	1	⊙		sub-adult. banded - landed on rail of Helo Deck	
1755					Sunset 2 Black-foots still present	
						BFA 12/6 ST 13/3 SA 1 BFB 2/2 RFB 1



DATE Feb. 4, 1965
Pg. # 1

	time	species	#	dir.	hgt.	remarks	loc.
						Sunrise 0640	
0640	BFA	Black-footed Alb.	3				
	0645	"	2				
	0700					5 BFA	
	0730					5 "	
	0800		3			8 "	
	0805		3			11 " all on water	
	0813	GREAT FRIGATE.	2	☉			
	0830		1			12?	
	0900					11-12	
	0930					6-10?	
	0950	Red-foot Booby	1			Imm off stern, possibly feeding on flying fish	
	0955	Frigate	2	☉			
	1000					12 BFA	
	1100					8 "	
	1120	Sooty Tern	1				
	1155	Frigate	1	☉		Bth immatures	
		RF Booby	1				
	1200		2			10 BFA	
	1230		3			13	
	1300					9 BFA	
	1330					3 BFA	
	1400					8 BFA	
	1420	Sooty Tern	1	☉			
	1430					5 BFA	
	1500					3 BFA	
	1530	XXXXXXXXXXXX					
	1540	Frigate	1	☉		♂	
	1600					6 BFA	
F	1655	Sooty Tern	40	25		10 BFA - 1630 Travelling	
		Fairy Tern	10	22			
F	1659	Sooty Tern	7			Travelling	
	1700					11 BFA	
	1705	Frigate	1				
	1814					SUNSET	

BFA - 25/9
GF - 7/7
RFB - 2/2
ST - 49/4
FT - 10/1

$$\begin{array}{r}
 2.37 \\
 35 \overline{)83} \\
 \underline{130} \\
 105 \\
 \underline{250} \\
 245
 \end{array}$$

$$\begin{array}{r}
 3.7 \\
 9 \overline{)25} \\
 \underline{70} \\
 63
 \end{array}$$

$$\begin{array}{r}
 14.7 \\
 11 \overline{)59} \\
 \underline{19} \\
 30 \\
 20
 \end{array}$$



DATE Feb 4-5, 1965
Pg. # 1

time species # dir. hgt. remarks loc.

1914 Sooty Tern 1 - WA

1917 " " 2

1920 " " 2 ← L.I. SIGHTED

1922 " " 1

1925 " " 5-6

1937 " " 1

1939 " " 1

1945 " " 1

1950 TROPICB, R. 1-2

— PROBABLE REDTAILED.

1955 SOOTY/TERN 5 IN AREA (Tropicbirds still about.)

2003 " " 3

2037 " " 4-5

2045 " " 1-2-5

— POSSIBLE STRING.

2053 " " 1-2

2055 " " 3-6

2140 " " 10-12 Calling

2140 Tropicbird 2

2207 " " 2

2207 Sooty/Tern 3

2215 Tropicbirds 2 (A)

2116 Sooty/Tern 5-8

2130 " " 4-8 In area, Tropicbirds PROBABLY SAME AS PREVIOUSLY

2150 " " 1

252 " " 2-3



DATE Feb 4-5
Pg. # 2

time	species	#	dir.	hgt.	remarks	loc.
2200	ST	2				
2200	ST	2				
2215	ST	3	+			
2217	ST	8	+			
2220	ST	4	+			
2230	ST	4	+			
2235	ST	4	+			
2239		5	+			
2245	Trojanbird	2				
2250	ST	5	+			
2300	ST	3	+			
2310	ST	1				
2315	ST	5	+			
2320	ST	4	+			
2335	ST	5	+			
2340		2				
2340	ST	3				
2345	ST	3				
2350	ST	4				
2400						
0030	ST	3				
0040	ST	2				
0043	ST	5				
0055	Trojanbird	2				
0100	ST	4				
0100	ST	2				
0110	ST	3				
0115	ST	2				
0120	ST	3				
0130	ST	2				
0135	ST	4				
0155	ST	4				
0218	ST	2				
0224	"	2				
0230	"	1-2				
0231		2				
Part I - yip-yip mostly over ship- same as above WA						

18-20-0
20-22
22-24
00-02
02-04
04-06

125

WM



DATE Feb 5th 4-5
Pg. # 3

time	species	#	dir.	hgt.	remarks	loc.
0250	ST	3-4			from stbd to port all types of calls -	
0255		1			to A, yip 2 WH	
0320		1			stb to port, yips only	
0322		1			distant off stb bow	
0355		1			distant ahead	
0358		1			possibly same as last	
0406		1			single WH off port	
0415		1	T		very low, loud WH	
0506		1			single yip off stb	

1900 - 2000 19/9²⁰
2000 - 2100 ~~12-18/6~~ 12-18/6
2100 - 2200 25-35/6
2200 - 2300 33/8
2300 - 2400 33/9
2400 - 0100 11/4
0100 - 0200 14/7
0200 - 0300 11-13/6
0300 - 0400 4/4
0400 - 0500 2/2
0500 - 0600 1



DATE Feb 5, 1965
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0645					Sunrise	
0645	Black-footed Albatross	1				
0730	" " "	1				
0755	BIRD	1				
0812	MASKED BOOBY	1	↙	LOW	- DISTANT.	
			⊙		- IMMATURE.	
0950	G. Frigate	1			Imm.	
1305	G. Frigate	1				
1530	RFB	1				
1658	RFB	2			Imms. - one all dark above, dark bill, second with white head & rump, pale blue bill	
1720	WTTropic	1				
1817					Sunset - 2 BFA still around	

BFA - 2/2
Bird 1
BFB - 1
GF 2/2
RFB - 3/2
WTT - 1



DATE 5-6
Pg. #

time	species	#	dir.	hgt.	remarks	loc.
0915	ST	3				
0940	ST	1				
0950	ST	1				
1015	ST	2				
2020	ST	1				
2030	ST	3				
2040	ST	1				
2042	ST	1				
2050	ST	2				
2105	ST	3				
2220		2-3	↗		WA, followed by 2 nd bird with yips	
2244		1	♂		WA	
2245		1			WT WT - yip-yip - scream	
2247		2	N?			
2300		2	→		WA's	
2305	Grayback Tern	1			By call - single cry	
2310	Sooty	3-4			off port - circling?	
2314	"	2-3			off stb, possibly same as preceding	
2316		1-2			yips	
2320		1			far off stb - yip	
2323		1				
2327		1	→		WT	
2333		2-3			off stb	
2337		1-2			yips	
2343		1	↓		along port - visible - loud yip, 2 loud WT	
2346		1	→			
2347-2400					Break	
0003	ST	3-4	→			
0012		1				
0020		1			off port	
0022		1			off stern	
0023		1			instant	

Turn 2000



DATE Feb 5-6
Pg. # 2

time species # dir. hgt. remarks loc.

0026	ST	1				
0038		2			off stb stem	
0035		1	→			
0036		3-4	→			
0040		3			WA'S	
0046		1				
0048		2-3	↘			
0055		3			Separated	
0100		2-3			same ones as above?	
0125		1				
0127		2			Not Together	
0128		2			Together - visible off stb - yips	
0130		1			single call	
0131		2			Separate but seem to be calling back & forth	
0135		2-3			off stem	
0140		1				
0142		1				
0145		1				
0150		1				
0159	"	1				
0240	SOOTY TERN	2-4				
0245	" "	1-2				
0300	" "	1-2				
0345	" "	2-3				
0345	TROPIC BIRD	1				
0345					RAIN SQUALL	
0450	SOOTY TERN	4-5			Loose Group close & circling	
0500	" "	1				
0520	" "	1				
0622	Black-ft. Alb.	1	↻			
0633	Sml. PETREL	1	↘	low	- probable Cook's - typical flight but poor light.	

19-20 5/3
20-21 10/6
21-22 3/1
22-23 6-7/4
23-24 16-22/12
24-01 23-26/13
01-02 17-19/12
02-03 3-6/2
03-04 3-5/2
04-05 4-5/1
05-06 2/2

72-110/58



DATE 6 FEB 65
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0645					SUNRISE	
0645	Black-ft. Albat.	1	☉			
0700	Red-ft. Booby	1	☉			
0727	Red-H. Tropic	1			- Imm. All brown above, dark breast band, dark bill; came aboard on VP rack. Still present 0850, not seen again.	
0740	WEDGETAIL SH.	1				
0910-0915					Albatross not in sight	
1100	Bl. Foot. Alb.	1			Joined first - latter around continuously since last	
~1000-1100					Slow to 1 Knot - checking engine speed?	
~1300-1330					Smoke flare over, two runs.	
~1330-1500					Slow to 1 Knot again	
1616	Sh. P.T.	1			Wedgetail pattern but fast flight, quick banks	
1722	FAIRY TERN	1	☉		Suggested Pterodroma - distant	
1750					Whale ahead	
1827					Sunset Albatross still following	

0644-0744

0744-0844

0844-0944

BFA 2/2

RFB 1

RTT 1

WTS 1

Sh-P 1

FT 1

Total- 7/7



DATE Feb 6-7, 1965
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
1845	Cook - Bonin Type	1	NE		100 yds off port; very little black under wing, like J.F. or WH-N, but small	
2024	ST	1				
2105	"	1				
2330					COURSE CHANGE TO SHORT LEG.	
0015	Sooty EN	1-2			(2)	
0245	ST	1				
0300	ST	2			Turn about 0400	
0315	ST	1				
0415	ST	1				
0515	ST	1				



DATE 7-Feb-65
Pg. #

time	species	#	dir.	hgt.	remarks	loc.
0740	Shear-Pet				0650 ± sunrise	
0745	Shear-Pet	1			too far out for Id. flew like a Wedgetail	
1128	Leach's	1	N			
1645	JFP	1	→ NE			
1706	JFP	1	SW		Probably same as above	
1816	Mottled Petrel?	1	W		Bonin size, not as chunky, dark above, and on throat?, light below this, then grayish again, underwings mostly darkish (brown gray?), very fast flight with much loose flapping in troughs	

0652 - 0752



DATE Feb. 8, 1965
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
1910	BOOBY	1			- PROBABLE RED-foot - Report RAINY.	
0100	ST	1				
0640	Shear-Pet	1			Glimpsed once	
0640	R.F. Booby	1			Imm. - dark, breast band, full orange feet, dark bill	
0645					Sunrise ^{Riding main mast; got off 0735, flew around}	
0700					~ 5 min, then left to N	
0922	0947-1017				COURSE CHANGE TO SHORT LEG.	
1003	WHITE-T. Tropic	1			WTTB left 1500 & back Fly's	
1150	TROPIC BIRD	1			0947-1150 - Fly's Manuevers	
1224	W.T. Tropic	1			PROBABLE WHITE-TAILED (Without CAUDAL APPENDAGE)	
0315	RFB	1			Same as above? (tailed)	
1410	WTTB	1				
1628	Tropicbird?	1			Reported by Rainey from bridge	
1650	WTTB	1				
1718	Frigate	1	⊙		87	
1748	RF(?) Booby	1			Below frigate - Imm. } chasing flying	
	Brown "	1			Ad. } fish along surface -	
	Tern sp.	1			Not Sooty?	
1800					Course change to NE	
1822					Sunset + green flash	

0646 - 0746
0746 - 0846
0846 - 0946

RFB - 3/3
WTT - 4/4
T - 2/2
F - 1
BB - 1
Y - 1



DATE FEB 8-9
Pg. # 2-1

time	species	#	dir.	hgt.	remarks	loc.
1840	RFB	1				
1910	ST	1				
1915	ST	2				
2018	ST	1				
2115	ST	1				
2230	ST	1			Stb Johnston lights in view as glow 2100 - towers now visible	
2324	"	1-2			Circling ship	
0035					Moonset	
0115					Johnston off port beam at 13mi.	
0129	ST	2				
0330	TROPIC.	2	⊙			
0440	"	2	⊙			
0440	ST	2-3			- SAME AS PREVIOUS ENTRY PROBABLY.	
0500					SHIP STOPPED - APPARENTLY HAS BEEN FOR SOME TIME.	
0555	BFA	1	⊙			
0600					SHIP STILL DEAD IN WATER..	
0633	R.F. Booby	1	⊙		- 1 imm.	
0639	BFA	1	⊙			
0640	SOOTY TERN	1	⊙		TOTAL 2	
0646				LOW	SUNRISE	

19-20 3/2
20-21 1
21-22 1
22-23 1
23-24 1-2/1
24-01 0
01-02 2/1
02-03 0
03-04 0
04-05 2-3/1
05-06 0

11 3-13/8



DATE 9 FEB 65
Pg. # 1

	time	species	#	dir.	hgt.	remarks	loc.
	0646					SUNRISE - SHIP DEAD IN WATER	
	0646	BFA	2	Q		AWAITING HELICOPTER FROM	
	0646	RFB	1	0		DOWNSTON WITH SICK SAILOR	
	0648	RFB	3			Imm.	
	0650	RFB	1			Ad.	
	0650	RFB	1			Imm	
	0652	RFB	1			Ad	
	0652	RFB	2			Imm In Area	
P	0652	Sooty Tern	40±5			on horizon	
F	0655	RFB	9	E		string of 7 headed east + 2 behind us	
	0655	Sooty Tern	?			Numbers scattered along horizon	
F	0700	Sooty Tern	12	E		String of Pairs	
F	0707	RFB	9	E		String	
	0715					Underway, helo made 3 landings in 4-5 min.	
	0717					Ship dead in water - not bearing	
	0740	Booby sp.	2	N-NE		2+ mi off port - prob. RF	
	0745	RFB	1	E		Ad.	
P	0755	Sooty Tern	8	NE		String Underway	
FF	0815	" "	95±10			} No fish seen	
		R.F. Booby	38±4				
		G. Frigate	4				
	0924	RF Booby	1	NE		Imm - light brown, pale bill	
	1017	" "	1			" " " " - same?	
		G. Frigate	2			Imm. over booby	
	1020	G. Frigate	1	0		♂ - also diving, alone	
	1045	" "	1			♀ - chasing flying fish	
	1052	Sooty Tern	1			distant	
F	1114	" "	100±25				
		Booby sp.	5+				
	1215	G. Frigate	1			Imm. following	
	1242	STORM PETREL	1	NE	Low	- HARCOURT'S OR Leach's	
	1247	RF Booby	1			Imm., appears same as 0924	
	1330	RF Booby	1			1 1/2 mi - ad.	
	1339	Frigate	2	-			
	1413	R.F. Booby	1			Adult	
	1520	FRIGATE	3	-	Low	- DISTANT	

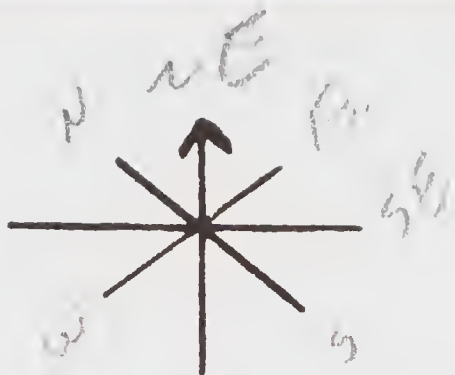


DATE 9 FEB 65
Pg. # 2

time species # dir. hgt. remarks loc.

1650	RFB	1				
1740	Booby	1	⊙	LOW	- Too distant & Poor Light for Identification	
1800	BFA	1	⊙	following	- PROBABLY DIFFERENT BIRD THAN EARLIER	
1812					SUNSET!	

BFA - 2/1
RFB - 72/16
ST - 236/7
Booby - 8/3
GF - 14/7
SP - 1



DATE Feb 10, 1965
Pg. # 1

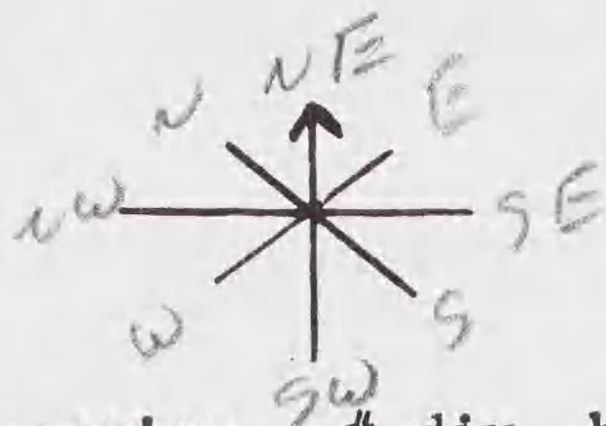
time	species	#	dir.	hgt.	remarks	loc.
0625					Begin observations	
0635					Sunrise	
0635	Black F. Alb.	2				
0650					Wreck, far out	
0653	Tropicbird	1			distant & high	
0700	BFA Alb.	1				
0800					2 BFA following	
1330	B.F. Albatross	1			2 following	
1450	Sooty Tern	3	↙			
1540	Sooty Tern	1				
1650	Frigate	1				
1756					SUNSET! Albatross not present	

BFA - 4/3

TA - 1

ST - 4/2

F - 1



DATE Feb. 11, 1965
Pg. # 1

time	species	#	dir.	hgt.	remarks	loc.
0715					Begin observations	
0718					Sunrise	
0734	Sooty Tern	1	→			
0734	Bl. F. Albatross	1			Not seen after 0900	
0735	Sooty Tern	2	←			
0958	R.F.B	1	↻		- Imm.	
1046	BFB	1	↓		Ad	
1148	G. Frigate	1	↻		♂	
F 1235	Sooty Tern	11				
	Fairy Tern	7				
1308	Booby sp.	2		low	2 1/2 - 3 mi off stb - PROBABLE MASKED (P).	
1333	FRIGATE	1	↻		- distant	
F 1415	Sooty Tern	4				
	Fairy Tern	11	↓			
1420	FAIRY TERN	1				
1420	" "	2			Display flight? - Pair started low, climbed steadily in several steps, one bird above the other, folding the wings into a delta shape at the "rest" stage.	
1500	Bl. F. Albatross	1				
1511	Sooty Tern	1			Ahead	
1511	Bird Sooty	1			Reported far off stb from bridge (Rainey)	
1526	Booby	1	←	low		
1627	Tern sp.	2			Sooty or GB - dark above, light below, but smaller very fast	
1627	to	5			Whale	
1630	Sooty Tern	1	→			
1650	BFA	1			2 Total behind ship now in	
F 1720	Sooty Tern	5				
	Fairy Tern	9	↓			
1740	BFA	1			TOTAL 3	
1810	R.F. Booby	1			Imm - All dark above + most breast, pale blue - very bill	
1843					Sunset	

T- 78/22

BFA- 4/4
ST 26/8
RFB 2/2
BFB 1
GF 2/2
FT 30/5
Booby 3/2
Tern 2/1



NG

DATE 12 FEB 65
Pg. # 1

time species # dir. hgt. remarks loc.

0707					SUNRISE	
0707	BFA	4	following			
0715	BFA	2	"			
0716	WHITE-H. TROPIC	1			TOTAL 6	
0717	BFA	2			TOTAL 8	
0727	W.T. Tropic	1				
0731	L. Albatross	1				
0737	Sooty Tern	1	←			
0747	"	1	→			
0805	R.F. Booby	1			Imm	
0829	Sooty Tern	2	←			
0930	B.F. Albatross	3			11	
1013	"	1			12	
1029	Red-ft. Booby	1			Ad.	
1035	Sooty TERN	4	←			
1230	B.F. Albatross	8			At least 20	
1244	SOOTY TERN.	2				
1305	B.F.A	2			22 & possibly MORE - dwindled to 7-8 from 1330-1400, then back to 16 1415	
1320	L. Albatross	1				
1323	Sooty Tern	1				
1323	Gaeger?	2				
1346	POMARINE GAEGER	2				
1420					Turn two Pearl	
1425	Pomarine Jaeger	1				
1446	POMARINE J	1				
1450	L. ALBATROSS	1	↓			
1515	G Frigate	1				
1530	RFB	1				
1600					End observations	

BFA - 22/7
LA - 3/3
WTT - 2/2
ST - 11/6
RFB - 3/3
G? 2
PJ - 4/3
GF - 1

48

AT SEA DAILY LOG -- B

DATE 7 FEB 1965

Time at sunrise = Position at sunrise = 0652 ⁰⁵ 12°42'N 171°34'
Time at sunset = Position at sunset = 1824 ¹⁵ 13°52'N 170°57'
Miles traveled from 0000 hours to sunrise = 48 mi
Miles traveled from sunrise to sunset = 92 mi
Miles traveled from sunset to 2400 hours = 45 mi

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0627	CELESTIAL	171-37W	12-38.5N
2.	1200	LORAN & CELESTIAL	171-12W	12-13N
3.	1610	SUN & LORAN	170-49W	13-39.5N
4.	1850	CELESTIAL	170-34W	13-25N
5.				
6.				

DATE 8 FEB 1965

Time at sunrise = Position at sunrise = 0646X 169-23W 15-12.5N
Time at sunset = Position at sunset = 1822X 170-20W 16-15N
Miles traveled from 0000 hours to sunrise = 64 mi
Miles traveled from sunrise to sunset = ~~84~~ mi 93
Miles traveled from sunset to 2400 hours = 49

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0630	CELESTIAL	169-25.2W	15-11N
2.	0930	SUN & LORAN	169-42W	15-28N
3.	1315	LORAN & LORAN	169-47W	15-36.5N
4.	1635	SUN & LORAN	170-16.2W	15-57
5.	1847	CELESTIAL	170 18	16 16
6.				

AT SEA DAILY LOG -- B

DATE 9 FEB 1965

Time at sunrise = Position at sunrise = 0645 1640 16413
Time at sunset = Position at sunset = 1802 167535 1715
Miles traveled from 0000 hours to sunrise = 28 m.
Miles traveled from sunrise to sunset = ~~82~~ 82
Miles traveled from sunset to 2400 hours = 54 m.

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0821	RADAR	16915	1645
2.	1117	LCRAN	16848	1656
3.	1817	LCRAN	16840	1710
4.	1830	CELESTIAL	16850	1715
5.				
6.				

DATE 10 1965 FEB

Time at sunrise = Position at sunrise = 0636 1656 16615
Time at sunset = Position at sunset = 1801 1651 16834
Miles traveled from 0000 hours to sunrise = 20 m.
Miles traveled from sunrise to sunset = 15 m.
Miles traveled from sunset to 2400 hours = 19 m.

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0645	CELESTIAL	16915	1734
2.	1105	LCRAN	16842	1611
3.	1548	LCRAN	16853	1638
4.	1802	LCRAN	16851	1653
5.				
6.				

AT SEA DAILY LOG -- B

DATE 11 FEB 1965

Time at sunrise = Position at sunrise = 0723 102° 15' W 12° 5' N

Time at sunset = Position at sunset = 1841 112° 15' W 15° 14' N

Miles traveled from 0000 hours to sunrise = 65 mi

Miles traveled from sunrise to sunset = ~~150~~ 107

Miles traveled from sunset to 2400 hours = 50 mi

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0057	CELESTIAL	104° 59' W	14° 12' N
2.	1136	LOCAL	112° 21' W	15° 32' N
3.	1929	CELESTIAL	116° 10' W	15° 01' N
4.				
5.				
6.				

93
31
62

DATE 12 FEB 1965

Time at sunrise = Position at sunrise = 0718 102° 22' W 12° 07' N

Time at sunset = Position at sunset =

Miles traveled from 0000 hours to sunrise =

Miles traveled from sunrise to sunset =

Miles traveled from sunset to 2400 hours =

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0645	CELESTIAL	107° 12' W	20° 24' N
2.				
3.				
4.				
5.				
6.				

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: February 9, 1965 Total Minutes: 687 (0645-1812) Total Miles 82

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>31</u>	<u>353</u>	<u>11.39</u>	<u>4.30</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>2</u>				<u>3</u>				<u>1.5</u>				<u>0.04</u>			

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>0</u>											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>7</u>	<u>256</u>	<u>36.56</u>	<u>3.12</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>19</u>	<u>-</u>	<u>16</u>	<u>-</u>	<u>80</u>	<u>-</u>	<u>72</u>	<u>-</u>	<u>4.21</u>	<u>-</u>	<u>4.50</u>	<u>-</u>	<u>0.98</u>	<u>-</u>	<u>0.88</u>	<u>-</u>

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>7</u>	<u>14</u>	<u>2</u>	<u>0.17</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>7</u>	<u>320</u>	<u>0.09</u>	<u>1</u>	<u>137</u>	<u>0.01</u>

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: February 10, 1965 Total Minutes: 285 (0636-1801) Total Miles 97

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>7</u>	<u>10</u>	<u>1.</u>	<u>0.10</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>3</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>4</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>1.33</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.04</u>			

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>1</u>	<u>-</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>0.01</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>2</u>	<u>4</u>	<u>2.00</u>	<u>0.04</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>1</u>	<u>1</u>	<u>1</u>	<u>0.01</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>0</u>					

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: February 11, 1965 Total Minutes: 678 (0723-1841) Total Miles 107

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>22</u>	<u>70</u>	<u>3.18</u>	<u>anno 0.65</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>4</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>4</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.04</u>			

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>0</u>											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>"</u>	<u>58</u>	<u>5.27</u>	<u>0.54</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>4</u>	<u>1</u>	<u>2</u>	<u>-</u>	<u>5</u>	<u>1</u>	<u>2</u>	<u>-</u>	<u>1.25</u>	<u>1</u>	<u>1</u>	<u>-</u>	<u>0.05</u>	<u>0.01</u>	<u>0.02</u>	<u>-</u>

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>2</u>	<u>2</u>	<u>1</u>	<u>0.02</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>3</u>	<u>47</u>	<u>0.03</u>	<u>0</u>		

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DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Feb. 12, 1965 Total Minutes: 533 (0707-1600) Total Miles 86

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>26</u>	<u>48</u>	<u>1.85</u>	<u>0.56</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>10</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>25</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>2.50</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.29</u>	<u>-</u>	<u>-</u>	<u>-</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
		<u>2</u>			<u>2</u>			<u>1</u>			<u>0.02</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>6</u>	<u>11</u>	<u>1.83</u>	<u>0.13</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>-</u>	<u>3</u>	<u>-</u>		<u>-</u>	<u>3</u>	<u>-</u>		<u>-</u>	<u>1</u>	<u>-</u>		<u>-</u>	<u>0.03</u>	<u>-</u>	

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>1</u>	<u>1</u>	<u>1</u>	<u>0.01</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>0</u>					

	1	1030 - 1826
	2	0708 - 1852
	3	0727 - 1756
Check →	4	0639 - 1816
	5	0646 - 1815
	6	0644 - 1827
	7	0652 - 1824
	8	0646 - 1822

183
 6/11
 58
 20

184
 26/48
 26
 220
 208
 120
 164
 162

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Feb. 1, 1965 Total Minutes: 474 ~~1111~~ (1030-1826) Total Miles 65

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>24</u>	<u>142</u>	<u>5.92</u>	<u>2.18</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>8</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>21</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>2.63</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.32</u>			

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
		<u>1</u>			<u>1</u>			<u>1</u>			<u>0.02</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>4</u>	<u>93</u>	<u>23.25</u>	<u>1.43</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>4</u>	<u>-</u>	<u>2</u>	<u>1</u>	<u>5</u>	<u>-</u>	<u>3</u>	<u>1</u>	<u>1.25</u>	<u>-</u>	<u>1.50</u>	<u>1</u>	<u>0.08</u>	<u>-</u>	<u>0.05</u>	<u>0.02</u>

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>2</u>	<u>102</u>	<u>0.04</u>	<u>0</u>		

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: February 2, 1965 Total Minutes: 644 (0708-1852) Total Miles 87

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>27</u>	<u>97</u>	<u>3.52</u>	<u>1.11</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>20</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>24</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>2.40</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>0.28</u>			

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
		<u>3</u>			<u>3</u>			<u>1</u>			<u>0.03</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>11</u>	<u>63</u>	<u>5.73</u>	<u>0.72</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>5</u>	<u>1</u>	<u>4</u>	<u>—</u>	<u>7</u>	<u>1</u>	<u>6</u>	<u>—</u>	<u>1.40</u>	<u>1</u>	<u>1.50</u>	<u>—</u>	<u>0.08</u>	<u>0.01</u>	<u>0.07</u>	<u>—</u>

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>3</u>	<u>50</u>	<u>0.03</u>	<u>0</u>		

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Feb. 3, 1965 Total Minutes: 623 (0727-1856) Total Miles 91

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>13</u>	<u>29</u>	<u>2.23</u>	<u>0.32</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>6</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>12</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>2</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.13</u>			

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>0</u>											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>3</u>	<u>13</u>	<u>4.67</u>	<u>0.14</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>1</u>	<u>1</u>	<u>1</u>	<u>0.01</u>

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>3</u>	<u>2</u>	<u>1</u>	<u>-</u>	<u>3</u>	<u>2</u>	<u>1</u>	<u>-</u>	<u>1</u>	<u>1</u>	<u>1</u>	<u>-</u>	<u>0.03</u>	<u>0.02</u>	<u>0.01</u>	<u>-</u>

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>0</u>					

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Feb. 4, 1965 Total Minutes: 687 (0639-1816) Total Miles 115

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
35	8593	2372.66	0.72 0.81

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
9	-	-	-	25	-	-	-	2.78	-	-	-	0.22			

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
0											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
4	59	14.75	0.51

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
		2				2				1				0.02	

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
7	7	1	0.06

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
2	57	2.02	0		

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Feb. 5, 1965 Total Minutes: 689 (0646-1815) Total Miles 95

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>9</u>	<u>10</u>	<u>1.11</u>	<u>0.11</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>2</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>2</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>1</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>0.02</u>			

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
		<u>1</u>			<u>1</u>			<u>1</u>	<u>0.01</u>		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>3</u>	<u>1</u>	<u>2</u>	<u>-</u>	<u>4</u>	<u>1</u>	<u>3</u>	<u>-</u>	<u>1.00</u>	<u>1.50</u>	<u>-</u>		<u>0.04</u>	<u>0.01</u>	<u>0.03</u>	<u>-</u>
								<u>1.33</u>							

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>2</u>	<u>2</u>	<u>1</u>	<u>0.02</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>0</u>					

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Feb. 6, 1965 Total Minutes: 703 (0644-1827) Total Miles 90

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
7	7	1	0.08

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
4	1	-	-	4	1	-	-	1	1	-	-	0.04	0.01	-	-

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
1			1			1			0.01		

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
1	1	1	0.01

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
1				1				1				0.01			

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
0			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
0					

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: Feb. 7, 1965 Total Minutes: 692 (0652-1824) Total Miles 92

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>5</u>	<u>5</u>	<u>1</u>	<u>0.05</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>5</u>	<u>?</u>	<u>1</u>	<u>-</u>	<u>5</u>	<u>?</u>	<u>1</u>	<u>-</u>	<u>1</u>	<u>?</u>	<u>1</u>	<u>-</u>	<u>0.05</u>	<u>0.01</u>	<u>-</u>	<u>-</u>

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>0</u>											

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>0</u>															

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>0</u>					

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA DAILY OBSERVATIONS SUMMARY

DATE: February 8, 1965 Total Minutes: 296 (0646-1822) Total Miles 93

I. Total Abundance of birds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>10</u>	<u>12</u>	<u>1.20</u>	<u>0.13</u>

II. Abundance of the Shearwater-Petrel-Albatross Group:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	WT	P	B	T	WT	P	B	T	WT	P	B	T	WT	P	B
<u>0</u>															

III. Abundance of Tropicbirds:

No. Sightings			No. Birds			Birds/Sighting			Birds/Mile		
T	RT	WT	T	RT	WT	T	RT	WT	T	RT	WT
<u>6</u>	<u>-</u>	<u>4</u>	<u>6</u>	<u>-</u>	<u>4</u>	<u>1</u>	<u>-</u>	<u>1</u>	<u>0.06</u>	<u>-</u>	<u>0.04</u>

IV. Abundance of Terns:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>1</u>	<u>1</u>	<u>1</u>	<u>0.01</u>

V. Abundance of Shorebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>0</u>			

VI. Abundance of Boobys:

No. Sightings				No. Birds				Birds/Sighting				Birds/Mile			
T	BF	RF	B	T	BF	RF	B	T	BF	RF	B	T	BF	RF	B
<u>3</u>	<u>-</u>	<u>3</u>	<u>1</u>	<u>4</u>	<u>-</u>	<u>3</u>	<u>1</u>	<u>1.33</u>	<u>-</u>	<u>1</u>	<u>1</u>	<u>0.04</u>	<u>-</u>	<u>0.03</u>	<u>0.01</u>

VII. Abundance of Frigatebirds:

No. Sightings	No. Birds	Birds/Sighting	Birds/Mile
<u>1</u>	<u>1</u>	<u>1</u>	<u>0.01</u>

VIII. Abundance of Flocks:

Total No. Flocks	Total No. Birds	Total No. F/Mi.	No. Feeding Flocks	No. Feeding Birds	No. Feeding F/MI.
<u>0</u>					

MONTHLY REPORT OF AT-SEA SURVEY

FEBRUARY

NORTHERN GRID SURVEY NO. 19

February 6-8, 1965

PACIFIC OCEAN BIOLOGICAL SURVEY

This report is based on the results and observations made during the nineteenth of a monthly series of investigations of the flora and fauna in a particular study area of the Central Pacific Ocean. Observations covered a period of twelve days, 1 - 12 February, 1965. The area investigated was the same as last month except that only the first one-third of the grid was covered.

Three members of the Smithsonian Institution Pacific Biological Survey Program participated in the survey, Ken Amerman (Biologist in Charge), Dale Husted, and Douglas Whitman.

The trip consisted solely of observations, collecting not being attempted due to a lack of available time.

TIME AND MILAGE OF DIURNAL OBSERVATIONS OUTSIDE THE GRID

Date	Total Miles Covered	Total Hours Spent
01	65	7.7
02	87	11.6
03	91	10.5
04	115	11.6
05	95	11.5
09	82	11.5
10	97	11.6
11	107	11.3
12	not available	8.9
Total	739	96.2

TIME AND MILAGE OF DIURNAL OBSERVATIONS INSIDE THE GRID

Date	Total miles Covered	Total Hours Spent
06	90	11.7
07	92	11.5
08	93	11.6
Total	275	34.8

SPECIES ACCOUNT

A total of 15 species was identified on this trip. Ten species were found within the grid and 12 outside it.

An average of 5.6 species per day was found outside the grid and only 3.7 within the grid.

Laysan Albatross (Diomedea immutabilis)

A total of four birds were identified all within one day of Oahu. None were found within the grid area.

Black-footed Albatross (Diomedea nigripes)

A total of 74 birds (minimum value) were observed, two within the grid area. They were most abundant near Oahu, although a large number were found near Sand-Johnston Atoll.

Wedge-tailed Shearwater (Puffinus pacificus)

Only one individual was identified and this was within the grid area.

Juan Fernandez Petrel (Pterodroma externa externa)

Only two individuals were observed, both within the grid area.

Leach's or Harcourt's Storm Petrel (Oceanodroma leucorhoa or castro)

A total of three individuals were recorded, one within the grid and two outside it.

Red-tailed Tropicbird (Phaethon rubricauda)

Only one individual was reported, this being within the grid area.

White-tailed Tropicbird (P. aethon lepturus)

A total of eleven birds, four inside and seven outside the grid, were recorded this month.

Blue-faced Booby (Sula dactylatra)

A total of five individuals were recorded, all outside the grid area.

Red-footed Booby (Sula sula)

Of the total of 96 individuals the vast majority were found near Sand-Johnston Atoll. Only four were found within the grid area.

Brown Booby (Sula leucogaster)

A total of three individuals were observed, two near Oahu and one within the grid area.

Great Frigatebird (Fregata minor)

Of the total of 27 individuals most were near Sand-Johnston Atoll. Only one bird was observed within the grid area.

Sooty Tern (Sterna fuscata)

A total of 488 individuals were recorded. All of these were found outside the grid area, most being near Sand-Johnston Atoll. Although no birds were found within the grid during the day time, a large number were heard and seen flying over the ship at night within this area.

Common Noddy Tern (Anous stolidus)

A total of five individuals were found near Oahu. None were observed within the grid area.

Fairy Tern (Gygis alba)

A total of 53 individuals were recorded, most of which were about 250 Southwest of Oahu. One individual was recorded within the grid.

Pomarine Jaeger (Stercorarius pomarinus)

A minimum of 16 individuals were recorded all within one day of Oahu.

DIURNAL ABUNDANCE OF SPECIES GROUPS WITHIN THE GRID

<u>Species Group</u>	<u>No. Birds</u>	<u>Birds/Sq. Mile</u>	<u>Estimated Population</u>	<u>Percent total Birds</u>
Shearwater-Petrel	9	0.02	800	36
Tern	2	0.002	100	08
Boobies	5	0.01	450	20
Tropicbirds	7	0.01	600	28
Frigatebirds	1	0.001	50	04
Storm Petrels	1	0.004	150	04
Total	25		2,150+	

↓ 12 Feb 1961
↑ 12 Feb 1961

DIURNAL ABUNDANCE OF SPECIES GROUPS OUTSIDE THE GRID

<u>Species Group</u>	<u>No. Birds</u>	<u>Birds/Sq. Mile</u>	<u>Estimated Population</u>	<u>Percent total Birds</u>
Shearwater-Petrel	61	0.04	2,000	08
Terns	526	0.24	11,800	70
Boobies	109	0.07	3,700	15
Tropicbirds	6	0.005	200	01
Frigatebirds	26	0.01	450	03
Storm Petrels	2	0.003	100	< 01
Total	749		18,500+	

DIURNAL ABUNDANCE OF BIRDS

<u>Date</u>	<u>No. Birds</u>	<u>No. Species</u>
01	137	8
02	90	7
03	23	4
04	80	5
05	9	5
06	7	5
07	5	2
08	13	4
09	333	5
10	8	3
11	69	6
12	46	7

Night observations were carried out from the evening of 4 February through the morning of 9 February.

Nocturnal Abundance of Birds

<u>Date</u>	<u>Species</u>	<u>No. Birds</u>	<u>Remarks</u>
04	Sooty Tern	141	Near Johnston Atoll
	Tropicbirds	10	
05	Sooty Tern	91	Identified by call
	Grey-backed Tern	1	
	Tropicbirds	2	
06	Sooty Tern	58	0622 hours 0633 hours 1845 hours
	Tropicbirds	2	
	Black-footed Albatross	1	
	Petrel	1	
	Petrel	1	
07	Sooty Tern	8	
08	Red-footed Booby	1	1840 hours
	Sooty Terns	8	
09	Sooty Tern	6	0555 hours 0639 hours
	Tropicbirds	4	
	Black-footed Albatross	1	
	Black-footed Albatross	1	
	Red-footed Booby	1	

AT SEA DAILY LOG -- B

DATE 7 FEB 1965

Time at sunrise = Position at sunrise = INPORT PEARL
Time at sunset = Position at sunset = 1826 15845W 20 46N
Miles traveled from 0000 hours to sunrise = INPORT
Miles traveled from ^{INPORT} sunrise to sunset = ~~50~~ MILES 65
Miles traveled from sunset to 2400 hours = 42 MILES

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	1200	VISUAL	158 00.5	21 08.5
2.	1302	VISUAL	158 04.5	21 01.5
3.	1433	LORAN	158 14.5	21 01
4.	2012	LORAN	158 57.5	20 40
5.				
6.				

DATE 8 FEB 1965

Time at sunrise = Position at sunrise = 0640 16025.2W 2013.5N
Time at sunset = Position at sunset = 1837 161 50.5W 1940
Miles traveled from 0000 hours to sunrise = 57 MILES
Miles traveled from sunrise to sunset = 87 "
Miles traveled from sunset to 2400 hours = 51 "

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0705	LORAN	160 24	20 14
2.	1130	LORAN	160 55.5	20 01
3.	1919	LORAN	161 56	1938
4.				
5.				
6.				

AT SEA DAILY LOG -- B

DATE 3 FEB 1965

Time at sunrise = Position at sunrise = 0727 163 51 1855
Time at sunset = Position at sunset = 1756 165 19 1818
Miles traveled from 0000 hours to sunrise = 71 MILES
Miles traveled from sunrise to sunset = 94 "
Miles traveled from sunset to 2400 hours = 49 "

	TIME OF FIX	TYPE OF FIX	LONGITUDE W	LATITUDE N
1.	0700	STARS	163 46	18 57
2.	1105	LORAN 3 SHN	164 20	1846.5
3.	1316	LORAN	164 35	1839
4.	1822	STARS	165 24	1814
5.				
6.				

DATE 4 FEB 1965

Time at sunrise = Position at sunrise = 0639 1732N 16702W
Time at sunset = Position at sunset = 1816 1658 N 16850 W
Miles traveled from 0000 hours to sunrise = 59 MILES
Miles traveled from sunrise to sunset = 1105 "
Miles traveled from sunset to 2400 hours = 50 "

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0600	STARS	16658	1734
2.	1118	LORAN	167 44	1720.5
3.	1445	LORAN	168 16	1709
4.	1845	STARS	16852	1657
5.	2130	RADAR	169 17	16 44
6.	2235	RADAR	169 22.5	16 38

AT SEA DAILY LOG -- B

DATE 5 FEB 1965

Time at sunrise = Position at sunrise = 0646 169-33W 16-03N
Time at sunset = Position at sunset = 1815 168-35W 14-41N
Miles traveled from 0000 hours to sunrise = 42 mi
Miles traveled from sunrise to sunset = 96 mi 95
Miles traveled from sunset to 2400 hours = 42 mi

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0200	RADAR	169° 28'W	16° 29.8'N
2.	0620	Celestial	169° 23.2'W	16° 05'N
3.	1547	LORAN C	168° 46'W	14° 57'N
4.	1845	Celestial	168° 33'W	14° 38.5'N
5.	2222	LORAN	168° 39'W	14° 20.5'N
6.				

DATE 6 FEB 1965

Time at sunrise = Position at sunrise = 0644 169-35.2 13-31.5N
Time at sunset = Position at sunset = 1827 170-50W 12-35.5N
Miles traveled from 0000 hours to sunrise = 58 mi
Miles traveled from sunrise to sunset = 93 mi 90
Miles traveled from sunset to 2400 hours = 54 mi

	TIME OF FIX	TYPE OF FIX	LONGITUDE	LATITUDE
1.	0619	Celestial	169-33.5W	13-33.5N
2.	1530	LORAN C	170-30W	12-30.5N
3.	1852	Celestial	170-54W	12-32N
4.				
5.				
6.				

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 1 FEB 1965

TIME	LAT ^N	LONG ^W	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100															
0200															
0300															
0400															
0500															
0600															
0700															
0800															
0900															
1000															
1100															
1200	21 08.5	158 00.5	SC7	10	2985	69	64	85	3		000-1	78	13	260	208
1300	21 09.5	158 04.5	SC7	10	2984	71	67	86	3		000-2	78	15	290	208
1400	21 00	158 11	SC7	10	2981	73	69	86	3		000-2	78	14	285	270
1500	20 59	158 17.5	SC7	10	2980	72	68	86	3		000-2	78	14	280	248
1600	20 56	158 26.5	SC7	11	2981	71	70	88	3		000-2	78	18	310	↑
1700	20 52	158 35	SC7	11	2981	71	70	90	4		000-2	78	18	310	↓
1800	20 48	158 42	SC7	11	2981	69	68	97	4		000-3	78	21	321	↓
1900	20 44	158 50	SC7	11	2982	69	68	97	4		000-3	79	21	321	↓
2000	20 41	158 58	SC7	10	2983	69	66	95	4		000-3	79	20	320	248
2100	20 39	159 04	SC7	10	2985	69	66	95	4		000-3	79	20	030	253
2200	20 36	159 12	SC7	10	2985	68	67	95	4		000-6	79	20	030	↑
2300	20 34	159 19.5	SC7	10	2985	68	65	90	4		000-8	79	20	030	↓
2400	20 32	159 27.5	SC7	10	2983	68	65	90	4		000-8	79	20	088	253

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 2 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	20 29	159 36.5	SC T	10	29 62	68	63	85	3		340-1	79	12	340	353
0200	20 26.5	159 44	SC T	10	29 62	68	63	85	3		340-1	79	11	345	
0300	20 24	159 53	SC T	10	29 63	68	63	85	3		340-1	79	14	350	
0400	20 22	160 00.5	SC T	10	29 64	68	63	85	3		340-1	79	12	345	
0500	20 19	160 04.5	SC T	10	29 65	68	63	85	3		340-1	79	12	340	
0600	20 17	160 15	SC T	10	29 67	68	63	85	4		340-1	79	12	340	
0700	20 14	160 23.5	SC T	10	29 69	69	63	80	4		340-1	79	12	340	353
0800	20 12	160 30	SC T	10	29 68	68	63	85	6		341-1	81	12	350	250
0900	20 09	160 37	SC T	10	29 90	71	65	81	6		341-1	82	12	350	
1000	20 07	160 43.5	SC T	10	29 92	70	64	81	5		341-2	82	14	350	
1100	20 03.5	160 50.5	SC T	10	29 92	70	64	81	5		341-2	82	14	350	
1200	19 59	161 01	SC T	10	29 89	70	64	81	5		340-6	83	15	350	
1300	19 56	161 08.7	SC T	10	29 87	70	64	81	5		340-6	83	15	350	
1400	19 53.2	161 16	SC T	10	29 86	72	69	91	5		340-6	83	15	350	
1500	19 50.1	161 24	SC T	10	29 84	72	69	91	5		340-6	83	15	350	
1600	19 47.8	161 31.6	SC T	10	29 84	72	69	91	5		340-6	83	15	350	
1700	19 44.8	161 39	SC T	10	29 84	72	69	91	5		340-6	83	15	350	
1800	19 42	161 47	SC T	10	29 85	72	69	91	5		340-6	83	15	350	
1900	19 39	161 54.5	SC T	10	29 87	72	69	91	5		340-6	83	15	350	
2000	19 35.5	162 03.5	SC T	10	29 89	68	65	90	2		000-1	82	8	025	
2100	19 32	162 13	SC T	10	29 91	66	61	85	2		000-1	82	9	020	
2200	19 28.2	162 22.3	SC T	10	29 92	65	60	85	3		000-1	82	10	023	
2300	19 24.8	162 32	SC T	10	29 91	65	60	85	3		000-1	82	14	028	
2400	19 21.1	162 41	SC T	10	29 91	69	64	85	3		000-1	82	14	000	250

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 3 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	19 17.3	162 51	SC T	10	29.91	69	64	85	3		000-1	82	10	030	250
0200	19 14.2	163 00.5	SC T	10	29.90	69	64	85	3		000-1	82	10	030	↑
0300	19 10.1	163 15	SC T	10	29.89	69	64	85	2		000-1	81	10	030	↑
0400	19 06.9	163 19	SC T	10	29.88	68	65	90	2		000-1	81	10	030	↓
0500	19 03.3	163 28.4	SC T	10	29.88	70	65	86	2		000-1	82	10	030	↓
0600	18 59.8	163 37.8	SC T	10	29.88	70	65	86	3		000-1	82	10	030	250
0700	18 56.9	163 46	SC T	10	29.88	70	65	86	3		000-1	82	10	030	350
0800	18 54	163 54.1	SC T	10	29.88	70	65	86	3		000-1	82	10	030	248
0900	18 51.1	164 03	SC T	10	29.91	70	69	90	3		000-1	82	10	030	↑
1000	18 48.8	164 11.8	SC T	10	29.92	73	69	98	3		000-1	82	10	030	↓
1100	18 46.5	164 20	SC T	10	29.91	73	69	98	3		000-1	82	10	030	248
1200	18 43.1	164 27.8	SC T	10	29.90	75	72	91	3		000-1	82	10	348	248
1300	18 38.8	164 34.8	SC T	10	29.89	78	74	87	3		000-1	82	8	348	243
1400	18 34.3	164 44.5	SC T	10	29.87	79	73	83	4		000-1	82	8	348	↑
1500	18 29.7	164 54.3	SC T	10	29.86	80	76	87	4		000-1	82	8	348	↑
1600	18 24.4	165 04.1	SC T	10	29.85	74	75	87	4		000-1	82	8	330	↑
1700	18 19.5	165 14	SC T	10	29.86	78	78	80	5		000-1	82	6	330	↑
1800	18 15	165 23.3	SC T	10	29.86	74	62	65	5		000-1	82	6	330	↑
1900	18 11.1	165 31.1	SC T	10	29.88	70	62	77	5		000-1	82	6	330	↓
2000	18 07.9	165 39	SC T	10	29.88	70	62	77	5		000-1	82	6	330	243
2100	18 04.1	165 47	SC T	10	29.91	70	67	77	5		000-1	82	6	330	248
2200	18 01.1	165 54.7	SC T	10	29.91	70	62	77	5		000-1	82	6	330	↑
2300	17 57.2	166 02.1	SC T	10	29.91	70	62	77	5		000-1	82	6	330	↓
2400	17 54	166 10.1	BR W	10	29.91	71	65	81	7		060-1	82	4	070	548

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 4 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	17 50.4	166 18.5	SCT	10	29.89	70	65	86	5		065-1	82	12	070	248
0200	17 47.2	166 26.3	SCT	10	29.88	70	65	86	5		065-1	82	12	070	
0300	17 43.7	166 34.1	SCT	10	29.87	70	65	86	5		065-1	82	12	070	
0400	17 40.5	166 42	SCT	10	29.88	68	65	90	5		065-1	82	12	050	
0500	17 37	166 49.5	SCT	10	29.88	69	64	85	5		065-1	82	12	050	
0600	17 34	166 58	SCT	10	29.89	71	63	77	4		065-1	82	12	050	
0700	17 30	167 06	SCT	10	29.89	70	64	81	4		065-1	82	12	050	
0800	17 27	167 16	SCT	10	29.92	71	65	81	5		065-2	82	12	050	248
0900	17 24	167 23	SCT	10	29.92	75	71	86	4		065-2	82	12	050	255
1000	17 23	167 31	SCT	10	29.92	76	70	82	4		065-2	82	12	050	
1100	17 21	167 40	SCT	10	29.93	78	71	79	4		065-2	82	12	050	
1200	17 19	167 50	SCT	10	29.87	75	67	82	4		065-2	82	12	050	255
1300	17 15	168 09	SCT	10	29.85	75	68	78	4		065-2	82	10	050	248
1400	17 12	168 09	SCT	10	29.83	76	67	74	4		065-2	82	10	050	248
1500	17 09	168 16	SCT	10	29.83	79	69	71	4		065-2	82	10	050	248
1600	17 07	168 24	SCT	10	29.84	78	69	75	4		065-2	82	10	050	246
1700	17 03	168 34	SCT	10	29.83	77	70	79	4		065-2	82	10	050	246
1800	16 57	168 49	SCT	10	29.86	76	69	78	4		065-2	82	10	050	246
1900	16 53	168 58	SCT	10	29.86	75	68	82	4		065-2	82	10	050	246
2000	16 51	169 05	SCT	10	29.87	71	67	90	4		065-2	84	10	050	246
2100	16 48	169 14	SCT	10	29.89	73	66	78	4		075-2	84	10	010	215
2200	16 47	169 18	SCT	10	29.90	73	66	75	4		075-2	84	10	010	270
2300	16 38	169 28	SCT	10	29.90	73	66	78	4		075-2	84	10	010	VARIOUS
2400	16 42	169 31	SCT	10	29.91	73	66	78	4		075-2	84	10	010	

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 5 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	16 35	169 31	SC T	10	29 91	73	65	73	4		025-2	82	10	015	161
0200	16 37	169 28	↑	↑	29 89	72	66	82	3		↑ ↑	84	↑	025	↑
0300	16 25	169 27	↑	↑	29 87	73	64	78			↑	↑	↑	↑	↑
0400	16 4	169 26	↑	↑	29 87	73	64	78			↑	↑	↑	↑	↑
0500	16 10	169 23	↑	↑	29 88	73	63	73			↑	↑	↑	↑	↑
0600	16 08	169 24	↑	↑	29 89	73	63	73			↑	↑	↑	↑	↑
0700	16 21	169 22	↑	↑	29 90	73	63	73			↑	↑	↑	↑	↑
0800	15 56	169 22	↑	↑	29 91	74	65	74			↓	↑	10	025	161
0900	15 46	169 19	↑	↑	29 92	74	68	82			025	↑	12	030	155
1000	15 41	169 15	↑	↑	29 91	75	68	75	↓		020	↑	14	030	↑
1100	15 37	169 10	↑	↑	29 90	76	70	82	3		030	↑	11	030	↓
1200	15 24	169 06	↑	↑	29 88	76	64	67	4		065	↓	10	100	↑
1300	15 15	169 00	↑	↑	29 85	75	68	71	4		↑	84	10	100	155
1400	15 01	168 55	↑	↑	29 83	75	66	71	3		↑	83	10	100	153
1500	15 02	168 50	↑	↑	29 82	75	68	71	↑		↑	↑	12	090	↑
1600	14 53	168 45	↑	↑	29 81	75	68	71			↑	↑	12	090	↑
1700	14 47	168 40	↑	↑	29 82	75	66	74			↑	↑	12	055	↑
1800	14 42	168 33	↑	↑	29 82	74	67	78			↑	↑	10	055	↑
1900	14 35	168 31	↑	↑	29 83	73	67	82			↓	↑	10	055	153
2000	14 30	168 26	↑	↑	29 87	73	67	82			065	↑	10	055	153
2100	14 25	168 23	↑	↑	29 87	72	67	82			045	↑	10	060	226
2200	14 20	168 19	↑	↑	29 87	73	67	82	↓		045 ↓	↑	10	060	↑
2300	14 15	168 15	↓	↓	29 87	73	67	82	3		045-2	↓	10	060	↓
2400	14 10	168 10	SC T	10	29 86	77	73	87	1		045-1	83	12	055	226

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 6 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	14 05	168 37	SC T	10	29 55	76	70	82	1		045-1	83	12	055	226
0200	13 59	169 05	↑	↑	29 54	75	71	89	2		050-↑	↑	1 ✓		↑
0300	13 53	169 11	↑	↑	29 52	74	71	91	5		↑	↑	1 ✓		↑
0400	13 48	169 17	↑	↑	29 52	72	68	86	5		↑	↑	1 ✓		↑
0500	13 40	169 24	↑	↑	29 53	73	67	82	4		↑	↓	1 ✓		↑
0600	13 32	169 30	↑	↑	29 53	74	68	82	↑		↑	83	1 ✓		↑
0700	13 26	169 37	↑	↑	29 54	75	69	82	↑		↑	84	1 ✓		↑
0800	13 25	169 44	↑	↑	29 54	75	70	78	↑		↑	↑	2 ✓		226
0900	13 23	169 49	↑	↑	29 56	76	70	75	↑		↓	↑	2 ✓		225
1000	13 19	169 54	↑	↑	29 56	77	70	79	↑		↑	↑	2 ✓		↑
1100	13 15	170 00	↑	↑	29 55	77	70	79	↑		2	↑	2 ✓		↑
1200	13 10	170 06	↑	↑	29 55	86	81	77	↑		↑	↑	2 ✓		↑
1300	13 05	170 12	↑	↑	29 55	87	82	88	↑		↑	↑	5 ✓		↑
1400	13 00	170 17	↑	↑	29 55	87	82	88	↑		↑	↑	5 ✓		↑
1500	12 53	170 22	↑	↑	29 52	87	83	85	↑		↓	↑	5 ✓		↑
1600	12 48	170 28	↑	↑	29 50	84	76	76	↑		-2	↑	5 ✓		↑
1700	12 43	170 40	↑	↑	29 77	82	74	76	↑		1	↑	4 ✓		↑
1800	12 39	170 47	↑	↑	29 77	80	73	79	↑		↑	↑	4 ✓		↑
1900	12 30	170 54	↑	↑	29 78	79	75	89	↑		↑	↑	4 ✓		↑
2000	12 26	171 09	↑	↑	29 79	75	71	86	↑		↑	↑	4 ✓		225
2100	12 19	171 09	↑	↑	29 81	75	72	91	↑		↑	↑	4 ✓		215
2200	12 13	171 13	↑	↑	29 80	75	72	91	↑		↑	↑	4 ✓		↑
2300	12 05	171 18	↓	↓	29 82	75	71	86	↓		↓	↓	11 ✓		215
2400	12 00	171 37	SC T	10	29 81	75	71	86	4		050-↓	84	11 ✓	055	225 314

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

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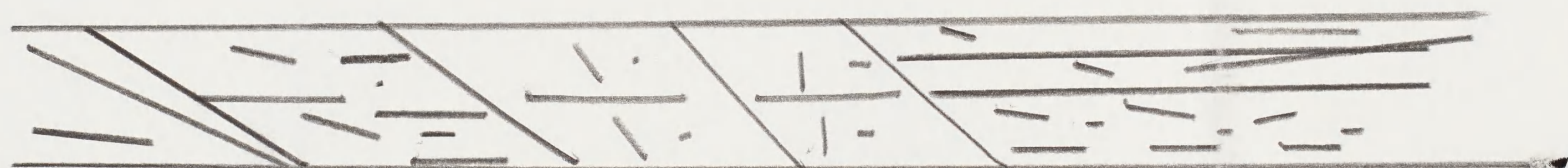
SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 7 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	12 12	171 32	SLT	10	29 80	74	70	86	2		070-2	83	14	070	314
0200	12 16	171 36	↑	↑	29 81	75	71	86	↑		↑	↑	↑	↑	↓
0300	12 21	171 41	↑	↑	29 80	76	70	86	↑		↑	↑	↑	↑	↓
0400	12 26	171 46	↑	↑	29 80	76	70	86	↑		↑	↑	↑	↑	314
0500	12 31	171 43	↑	↑	29 80	75	69	82	↑		↑	↑	14	↑	045
0600	12 36	171 39	↑	↑	29 80	74	70	86	↑		↑	↑	16	↑	↓
0700	12 42	171 34	↑	↑	29 82	74	70	86	↑		↑	↑	17	↑	↓
0800	12 46	171 39	↑	↑	29 82	76	70	82	↑		070-1	↑	↑	070	045
0900	12 53	171 35	↑	↑	29 84	74	70	86	↑		060-	83	↑	060	041
1000	13 01	171 31	↑	↑	29 84	75	68	78	↑		↑	84	↑	↑	↑
1100	13 07	171 26	↑	↑	29 82	76	69	78	↑		↑	↑	↑	↑	↑
1200	13 08	171 12	↑	↑	29 79	78	68	71	↑		↑	↑	↑	↑	↑
1300	13 22	171 05	↑	↑	29 76	75	68	78	↑		↑	↑	↑	↑	↓
1400	13 28	171 00	↑	↑	29 76	↑	68	78	↑		↑	↑	↑	↑	↓
1500	13 23	170 55	↑	↑	29 77	↑	68	78	↑		↑	↑	↑	↑	041
1600	13 29	170 50	↑	↑	29 78	↑	68	78	2		↑	↑	↑	↑	045
1700	13 44	170 44	↑	↑	29 80	↑	68	78	3		↑	↑	↑	↑	↓
1800	13 47	170 40	↑	↑	29 80	↓	68	78	↑		↑	↑	↑	↑	↓
1900	13 56	170 33	↑	↑	29 85	75	68	78	↑		060-	↑	14	060	045
2000	14 03	170 27	↑	↑	29 85	50	67	64	↑		050	↑	17	050	047
2100	14 09	170 23	↑	↑	29 86	79	66	64	↑		↑	↑	17	↑	↑
2200	14 15	170 19	↑	↑	29 86	79	64	63	↑		↑	↑	16	↑	↑
2300	14 20	170 12	↓	↓	29 82	78	64	63	↓		↓	↓	16	↓	↓
2400	14 25	170 07	SET	10	29 87	74	67	78	3		050-2	84	16	050	047

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS



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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 8 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	14 32	169 59	SC T	10	29 56	74	65	82	3		050-3	54	8	050	047
0200	14 36	169 58	↑	↑	29 56	74	67	78	↑		↑	↑	↑	050	↑
0300	14 37	169 46	↑	↑	29 54	74	65	82	↑		↑	↑	↑	050	↑
0400	14 30	169 31	↑	↑	29 54	73	69	86	↑		↑	↑	↑	050	↑
0500	14 57	169 35	↑	↑	29 54	73	69	86	↑		↑	↑	↑	060	↑
0600	15 06	169 34	↑	↑	29 57	73	69	86	↑		↑	↑	↑	↑	↑
0700	15 19	169 22	↑	↑	29 90	73	69	86	↑		↑	↑	↑	↑	047
0800	15 14	169 28	↑	↑	29 91	74	71	91	↑		↑	↑	↑	↑	344
0900	15 25	169 35	↑	↑	29 93	75	72	91	↓		↑	↑	↑	↑	↑
1000	15 30	169 42	↑	↑	29 93	77	73	87	3		↑	↑	↑	↑	↑
1100	15 30	169 47	↑	↑	29 94	78	74	87	5		↑	↑	↑	↑	314
1200	15 33	169 46	↑	↑	29 92	75	69	82	8		↑	↓	↑	↑	340
1300	15 37	169 38	↑	↑	29 89	75	69	82	4		↑	54	4	↑	340
1400	15 45	169 35	↑	↑	29 87	74	70	86	4		↑	53	2	↑	314
1500	15 44	169 29	↑	↑	29 85	↑	68	82	4		↓	53	2	↓	314
1600	15 53	169 20	↑	↑	29 86	↑	68	82	5		050-	53	5	060	314
1700	16 03	169 20	↑	↑	29 87	↑	67	78	↑		030	54	↑	040	330
1800	16 13	169 25	↑	↑	29 88	↑	67	78	↑		060	↑	↑	070	330
1900	16 17	169 15	↑	↑	29 90	↑	67	78	↑		060	↑	↑	070	070
2000	16 27	169 07	↑	↑	29 93	↑	67	78	↑		060-	↑	↑	000	078
2100	16 31	169 36	↑	↑	29 94	↑	67	78	↑		065	↑	↑	000	078
2200	16 33	169 21	↓	↓	29 94	↓	67	78	↓		065	↓	↓	000	078
2300	16 25	169 14	SC T	↓	29 94	74	67	78	5		065-3	54	15	000	078
2400	16 26	169 35	CLR	10	29 94	76	67	74	1		095-2	53	10	090	078

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS



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SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 9 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	16 28	169 25	CLR	10	29 93	76	67	74	1		095 2	83	10	095	000
0200	16 29	169 20	CLR	10	29 91	75	66	74	1		095 ↑	↑	↑	↑	000
0300	16 30	169 16	CLR	10	29 90	75	66	74	1		095	↑	↑	↑	000
0400	16 34	169 16	ScT	10	29 96	73	66	78	2		095	↑	↑	↑	000
0500	16 36	169 16	ScT	10	29 91	73	66	78	2		095	↑	↑	↓	000
0600	16 38	169 16	ScT	10	29 92	74	65	74	2		095	↑	↑	095	000
0700	16 41	169 15	ScT	10	29 94	75	66	74	2		095	↓	↓	080	000
0800	16 43	169 15	ScT	10	29 95	74	67	74	3		095	83	10	↑	069
0900	16 47	169 08	ScT	10	29 96	73	66	78	8		095	84	12	↑	↑
1000	16 49	169 04	ScT	10	29 96	75	66	78	6		095	↑	↑	↑	↑
1100	16 54	169 04	ScT	10	29 96	75	66	74	4		095	↑	↑	↑	↑
1200	16 58	169 02	ScT	10	29 94	75	68	74	4		095	↑	↑	↑	↑
1300	17 02	169 00	ScT	10	29 92	75	68	75	4		095	↑	↑	↑	↑
1400	17 08	169 03	ScT	10	29 90	74	67	78	4		095	↑	↑	↑	↑
1500	17 13	169 13	ScT	10	29 88	74	67	78	4		095	↓	↓	↑	069
1600	17 14	169 14	ScT	10	29 89	74	67	78	4		095	84	↑	↑	↑
1700	17 17	169 06	ScT	10	29 90	74	67	78	4		095	83	↑	↑	↑
1800	17 15	169 02	ScT	10	29 91	74	65	74	4		095	83	↑	↑	↑
1900	17 17	169 01	ScT	10	29 92	72	66	78	4		095	83	↑	↑	↑
2000	17 20	169 01	ScT	10	29 93	72	66	78	4		095	87	↑	↑	069
2100	17 24	169 09	ScT	10	29 94	72	66	78	4		095	↑	↑	↑	↑
2200	17 27	169 16	ScT	10	29 94	72	68	86	4		095	↑	↑	↑	↑
2300	17 22	169 27	ScT	10	29 94	72	68	86	4		095 ↓	↓	↓	↓	↑
2400	17 25	169 15	ScT	10	29 94	73	67	82	4		095 -2	82	12	080	↑

REMARKS:

ALL TIMES LOCAL (WHISKEY); WIND DIR. IN WHOLE DEGREES; WIND SPEED IN KNOTS; TEMPERATURES IN FAHRENHEIT; VISIBILITY IN NAUTICAL MILES;
WAVES IN WHOLE DEGREES; WAVE PERIOD IN SECONDS; WAVE HEIGHT IN WHOLE FEET; SEA LEVEL PRESSURE IN MILLIBARS

SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 10 Feb

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100			SCT	10	29.92	72	68	86	4		080-2	83	13	095	069
0200			↑	↑	29.90	72	68	86	4		↑	84	13	↑	↑
0300			↑		29.90	72	66	82	4		↑	↑	13	↑	↑
0400			↑		29.91	73	67	82	3		↑	↑	13	↑	↑
0500			↑		29.92	75	68	78	3		↑	↑	↑	↑	↑
0600			↑		29.93	76	67	74	3		↑	↑	↑	↑	↑
0700			↑		29.93	77	68	74	3		↓	84	↓	↑	↑
0800			↑		29.94	76	69	78	3		080	83	13	↑	↑
0900			↑		29.95	76	69	78	4		085	83	14	↑	↑
1000			↑		29.96	76	69	78	5		085	83	14	↑	↑
1100			↓		29.97	76	69	78	5		090	83	16	↑	↑
1200			SCT		29.95	73	69	86	5		↑	84	↑	↑	↑
1300			BKN		29.93	74	68	82	7		↑	↑	↑	↑	↑
1400			↑		29.96	71	68	92	7		↑	↑	↑	↑	↑
1500			↑		29.89	72	68	86	7		↑	↑	↑	↑	↑
1600			↓		29.89	73	67	82	7		↑	↑	16	↑	↑
1700			BKN		29.90	74	67	78	7		↑	↑	14	↑	↑
1800			OVC		29.91	72	68	86	8		↑	↑	14	↑	↑
1900			OVC		29.91	72	66	82	8		↓	↑	14	↓	069
2000			OVC		29.93	72	66	82	8		090	↓	14	095	066
2100			OVC		29.93	72	66	82	8		035	64	12	040	↑
2200			BKN		29.93	72	66	82	8		035	83	12	040	↑
2300			BKN	↓	29.93	72	66	82	8		035	83	12	040	↓
2400			BKN	10	29.94	71	65	81	8		065-2	83	12	065	↓

REMARKS:

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SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 11 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	20 54	163 00	BKN	10	29 92	69	61	76	7		065-2	83	12	065	066
0200	20 54	163 20	ADVERSE		Clouds			7							↑
0300	20 54	163 20	BKN	10	29 91	69	61	76	7		065-2	83	12	065	↑
0400	20 53	163 20	SCT	↑	29 90	70	64	81	4		052	82	14	065	↑
0500	20 54	163 20	SCT		29 91	69	63	81	4			↑	14	065	↑
0600	20 54	163 20	SCT		29 92	69	61	72	4				14	065	↑
0700	20 54	163 20	SCT		29 93	71	62	72	2				10	085	↓
0800	20 54	163 20	↑		29 94	71	62	72	↑				↑	↑	066
0900	20 54	163 20			29 94	72	59	73							068
1000	20 54	163 20			29 94	73	66	78							↑
1100	20 54	163 20			29 95	75	66	74							
1200	20 54	163 20			29 94	74	65	74							
1300	20 54	163 20			29 92	74	63	69							
1400	20 54	163 20			29 90	74	63	69							
1500	20 54	163 20			29 87	74	67	78							
1600	20 54	163 20			29 87	75	66	74							
1700	20 54	163 20			29 86	74	67	78							
1800	20 54	163 20			29 86	74	67	78							
1900	20 54	163 20			29 87	74	67	78					10	065	↓
2000	20 54	163 20			29 87	73	67	82					15	070	068
2100	20 54	163 20			29 88	72	68	86					15	↑	072
2200	20 54	163 20			29 89	71	67	86					15	↑	↑
2300	20 10	163 30	↓	↓	29 90	70	65	86	↓		↓ ↓	↓	15	↓	↓
2400	20 12	163 20	SCT	10	29 96	68	62	80	2		065-2	82	12	070	↓

REMARKS:

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SI-MNH-955b
Rev. 4-9-64

SMITHSONIAN INSTITUTION
DIVISION OF BIRDS
AT SEA CLIMATOLOGICAL DATA

DATE 12 FEB 1965

TIME	LAT	LONG	PRES WEA	VIS	SLP	DRY B	DEW PT	HUM %	TL SKY	OPA SKY	WAVES	SEA TEMP	WIND S	WIND D	SHIP COURSE/SPD.
0100	24 15	160 15	Sct	10	Sct	68	62	80	2		065 2	82	070	10	072
0200	24 17	157 24	Sct		Sct	68	62	80	2		065 2				
0300	24 19	154 28	R	↑	R	68	60	76	3		065 2	↑	↑	↑	↑
0400	24 21	151 34	Sct		Sct	68	60	76	2		065 2				
0500	24 23	148 39	Sct		R	68	60	76	2		065 2				
0600	24 25	145 44	Sct		R	68	60	76	2		065 2				
0700	24 27	142 49	Sct	↓	R	68	60	76	2		065 2	↓	070	10	↓
0800	24 30	139 54	Sct	10	Sct	69	58	72	3		030 2	82	075	10	072
0900															050
1000															050
1100															050
1200															
1300															
1400															
1500															
1600															
1700															
1800															
1900															
2000															
2100															
2200															
2300															
2400															

REMARKS:

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